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# Elumenati OpenDome Theater

## Installation and Operation Guide

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# Theater Overview

## Introduction

This guide covers the installation and operation of the GeoDome Theater. The Theater consists of three major components: the inflatable dome structure, the projection system and the image generator (IG). Please read through this entire guide before following the instructions.

## Theater Equipment List

### 1. Case 1:

- Inflatable OpenDome Theater structure
- Screen Suction Fan
- Screen Fan Speed Control
- Furniture Dolly - for easy transportation of the dome alone



### 2. Case 2:

- Inflation Blower
- Ventilation Blower



# Theater Setup

## Preparation

The space requirements for the Theater are at least 25' x 25' in clear floor space and at least 13' in ceiling height. Make sure the floor surface is clean. The dome will be unpacked with the screen face-down, so the setup surface should be free of debris that may mark the screen material.

**IMPORTANT:** The Theater requires constant power to remain inflated.

## Unpacking

1. Remove the screen suction fan from Case 1.



2. Tilt the case and roll the dome out onto the floor.



3. Unfold the dome so that the light screen material is face-down on the floor. It will unfold to a circular shape.

4. Close all four of the vents around the periphery of the dome base by closing the zippers and securing the Velcro.



*(Fig. 1) Unpack*



*(Fig. 2) Unroll*



*(Fig. 3) Unfold*



*(Fig. 4) Locate four vent openings*



*(Fig. 5) Zip and Velcro close each opening*

## Connecting the Inflation Blower

1. Remove both the inflation and ventilation fans from Case 2. The fans are not identical. The 1 hp fan with the fabric connector is used for inflating the dome while the 1/3 hp fan is used to bring cold air into the dome once operational.



2. Plug in the blower.
3. Locate the blower connection tube. If space permits, use the extension tube included in Case 1. This lets you place the blower ten feet from the back of the dome and cuts down on noise inside the dome.
4. Connect the blower fan to the connection tube by attaching and closing the zipper and Velcro seal. (Fig. 6)



(Fig. 6) Connecting the blower.



## Connecting the Screen Suction Fan

1. Locate the hole at the top of the dome surrounded by Velcro. Position the suction fan on top of this hole so that the Velcro on the fan bottom secures to the dome. (Fig. 7)

- **Important: Remove all footwear before stepping on dome material.**

2. Plug the suction fan into the fan speed control accessory, an off-the-shelf lamp dimmer (Fig. 8).



*(Fig. 7) Attaching the suction fan.*



*(Fig. 8) Connecting the speed control*



## Inflating

1. Turn the blower on high. (Fig. 9)
2. Let the Theater structure inflate. This should take about 5 minutes. (Figs 10, 12, 13)
3. Plug the suction fan speed control (see previous section) into a 120V outlet. Move the slider to the full-on position for 2-3 minutes to pull the screen into position.
4. When the screen is taut slide the dimmer back to adjust the amount of suction behind the screen. Balance the fan speed between a taut screen with no wrinkles and no print through of the support structure (Fig. 11). The actually setting varies with atmospheric pressure.



(Fig. 9) Blower Speed Control



(Fig. 10) Inflating the Theater



(Fig. 11) Setting screen tension



(Fig. 12) Dome begins to inflate



(Fig. 13) Fully inflated Theater

## Using the OpenDome

The Theater is now ready for use. Install the provided audio/video equipment and enjoy the show!



*(Fig. 14) Theater in action*



# Theater Teardown

## Deflating

1. Once you are finished using your Theater, remove all equipment from inside the dome.
2. Turn off the inflation blower. The structure will begin deflating.
  - Tip: If two or more people are deflating the dome, it's helpful to fold the dome along the line between the door and the blower tube. The dome then collapses onto one side. This folding method is known as "the taco" and provides better protection for the screen.
3. As it deflates, open the deflation vents by opening the Velcro and zippers around the perimeter of the OpenDome to allow the air to freely escape. (Fig. 15)
4. Unplug the fan speed control from the power outlet and disconnect it from the suction fan's power cord.
  - **Remove all footwear before stepping on dome material.**



(Fig. 14) Dome begins to deflate



(Fig. 15) Open all four vents



(Fig. 16) Remove suction fan. Shoes off please!

## Packing Up

1. Drag dome by suction fan hole until it folds in half along a line between the doorway and the inflation tube. This sandwiches the screen completely inside the outer shell, protecting it from dirt. (Fig. 17)
2. Once deflated, flip the dome so that the light screen surface is up (away from dirt and debris).
3. Orient the dome with doorway and inflation tube opposite each other and fold one side (90 degrees from the door or inflation tube) over the other making a half circular shape. (Fig. 18)
4. Fold in half again from the opposite direction so that the width is again decreased. (Fig. 19)
5. Begin tightly and slowly rolling the dome from the doorway end toward the inflation tube end, taking time to let air escape as you roll.
6. Place the dome in the transport bag and tighten the bag straps before transport.



(Fig. 19) Folding dome to proper width



(Fig. 20) Dome cinched into protective bag

## **Alternate Packing Method (Stuff Pack)**

After following steps 1-4 above, some customers prefer to “stuff” the OpenDome directly into the shipping container. This method has three advantages: 1) stuffing allows for a more efficient use of space; 2) there is a more random distribution of wrinkles in the dome fabric this way; and 3) it's quicker. The disadvantage is that there is an increased risk of tearing the dome fabric.

# Theater Information

This section contains product specifications, troubleshooting tips, and support information.

## Maintenance

### Cleaning

The entire Theater, including the screen, may be cleaned with a wet cloth or sponge. Water is preferred but a mild soap solution may be used for tougher marks. Do not use chemical solvents.

## Troubleshooting

### The Inflatable Is 'Soft'

Make sure all the zippers are closed. Check the inflation tube for twisting or obstructions. Make sure the blower intake is clear.

### The Inflatable is Too Firm

Switch the external blower to #2 or #3 setting.

### Tears and Rips – Inflatable Repairs

The Theater comes with a one-year warranty on workmanship and materials. If the damaged inflatable is a result of workmanship, contact The Elumenati to arrange for repair. If a small tear occurs in your inflatable during an event, you may repair it yourself using a sewing kit with a "C-hook"-shaped needle and mono-filament thread. Local upholstery and tent & awning shops may be able to complete emergency repairs if needed.

### Important Advisories

ALWAYS remove footwear before walking on dome material.

NEVER pack your Theater wet. Inflatables may be used in all types of weather, including rain and snow, but they must be completely dry before packing or storing. If inflatables are stored wet, mildew damage can occur within days. Mildew not only voids your warranty, but also will rot your inflatable.

PLEASE NOTE - Elumenati OpenDomes are not intended for outdoor use. Please contact us to discuss outdoor use domes.

## **Product Support**

Please contact us with your questions via email at [support@elumenati.com](mailto:support@elumenati.com) or by phone at 1-888-384-3826,option 2.

# Theater Specifications

## OPENDOME ADVANTAGES

- Fully open doorway with no airlock
- No rigid supports
- No complex assembly

## DIMENSIONS

- 7.62m (25') Outside Diameter
- 6.5m (21.3') Internal Screen Diameter
- 4.1m (13.5') Maximum Height

## CAPACITY

- Maximum capacity depends on age/size of audience and seating arrangement.
- Adult Capacity: 20
- Typical Student Capacity: 25-30

## Minimum Setup Area

- 25' x 25' clear floor space
- 13' minimum ceiling height

## MINIMUM SETUP CREW

- 1 adult – 2 are recommended

## MINIMUM SETUP TIME

- Approximately 20 minutes

## WEIGHT

- 140 lbs

## PACKED SIZE

- 1.07m x 0.86m x 1.07m (42" x 34" x 42")

## FLOORING

- No special flooring is provided. The floor of the setup area is usually sufficient.

## MATERIALS

- 200 Denier Nylon Oxford

## CUSTOM COLORS & BRANDS

- Available in a wide range of colors
- Custom graphics can be printed directly on the dome
- Custom removable wraps available

## POWER REQUIREMENTS

- Blower fan requires (1) 110V AC outlet during inflation period
- Screen fan requires (1) 110V AC outlet while in use

## STANDARD ACCESSORIES

- Shipping case
- Blower fan
- Screen fan
- Installation manual
- Patch kit

## OPTIONAL ACCESSORIES

- Hard-shell shipping case

## OPERATING ENVIRONMENT

- Indoors or under cover
- Less than 5 mph wind untethered

## LIMITED WARRANTY

- 1 years part and labor

## CARE

- Spot clean with water and cloth
- Screen is machine washable and replaceable



